





GZA GeoEnvironmental, Inc. 249 Vanderbilt Avenue. Norwood, Massachusetts 02062 781-278-3700 (fax) 781-278-5701 TRANSMITTAL

Date: October 18, 2018 Job No. 01.0171521.52

Attention: Reference Librarian

Re: Former Everett Staging Yard Immediate Response Action (IRA) Plan

TO: Somerville Public Library

79 Highland Avenue

Somerville, Massachusetts 02143

We are sending you:

1

Shop Drawings Copy of Letter Under Separate Cover, the following Items:

Copies

Date 10/16/2018

Attached

Prints

Change Order Plans

Samples Specifications

via:

No.

Description

Immediate Response Action Plan – Outfall #3

Construction-Related Remediation Activities

(Former) Everett Staging Yard

One Broadway

Everett, Massachusetts

Release Tracking Number (RTN) 3-35119

These are Transmitted as Checked Below:

For Approval For Your Use As Requested

For Review and Comment

FOR BIDS DUE:

Approved as Submitted Approved as Noted **Returned for Corrections**

Resubmit Copies for Approval Submit Copies for Distribution Return Corrected Prints

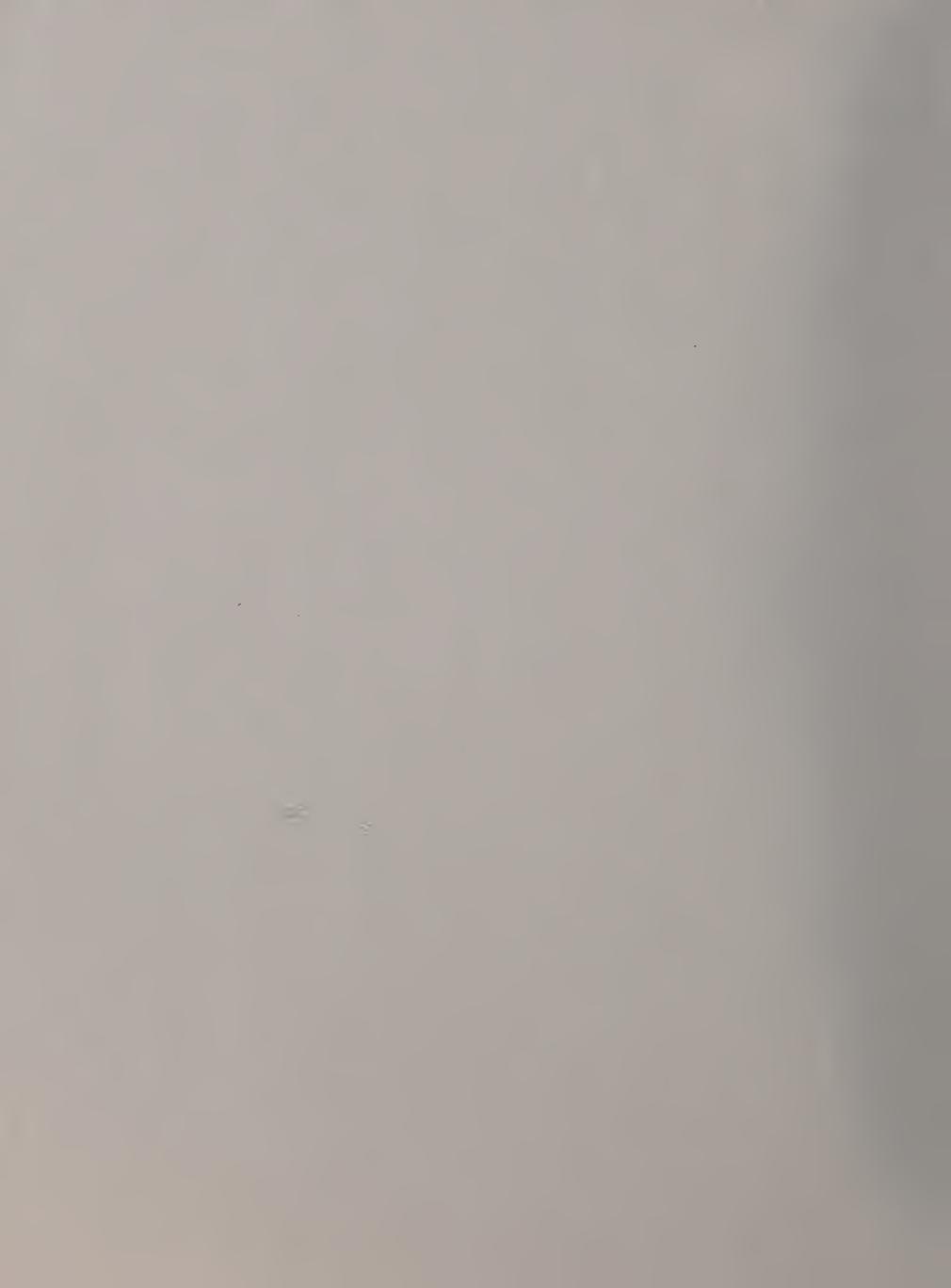
PRINTS RETURNED AFTER LOAN TO US

Comments:

Copy To:

Signed:

Matthew M. Smith Associate Principal





ENVIRONMENTAL

Ecol ocical

WATER

CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue Norwood, MA 02062 T: 781.278.3700 F 781.278.5701 F. 781.278.5702



October 15, 2018 GZA File No: 01.00171521.52

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup Northeast Regional Office 205B Lowell Street

Re: Immediate Response Action Plan
Turbid Outfall Discharge
(Former) Everett Staging Yard
One Broadway
Everett, Massachusetts
Release Tracking Number 3-35119

Wilmington, Massachusetts 01887

To Whom It May Concern:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Wynn MA, LLC (Wynn MA), has prepared this Immediate Response Action Plan (IRA Plan) to describe those Preliminary Response Actions pursuant to the Massachusetts Contingency Plan (MCP) that will be completed to address the observed discharge of turbid water from a drainage structure (Outfall #3) located on the east side of the Property (as defined below) at the southern end of the constructed wharf/bulkhead structures, which has been identified by GZA as a Condition of Substantial Release Migration (SRM). The turbid discharge was observed from a stormwater outfall to the Mystic River during a period of outgoing tidal flow while ongoing Release Abatement Measure (RAM) activities were being conducted at the Property as part of MCP Response Actions associated with Release Tracking Number (RTN) 3-13341.

This IRA Plan has been prepared in accordance with 310 CMR 40.0424 of the MCP, and with the Limitations in Appendix A. This IRA Plan will be submitted electronically through the eDEP online filing system. A copy of the IRA Transmittal Form (BWSC-105) is included in Appendix B. A Release Notification Form (RNF) is being submitted concurrently with this IRA Plan; a copy of the RNF (BWSC-103) is also included in Appendix B. The required notification to municipal officers will be prepared and transmitted following submission of this IRA Plan to MassDEP.

The Disposal Site under RTN 3-13341 has been designated as a Public Involvement Plan (PIP) Site in accordance with Section 40.1404 of the MCP. The response actions described herein are consistent with ongoing RAM activities at the Site. The existing RAM Plan and PIP considered the potential for IRAs to be necessary as construction and site development activities progressed, and the RAM included a prospective IRA Plan. Based on the guidelines established in the PIP, written notification of the availability of this IRA Plan will be provided to the PIP distribution list, and a public meeting will be held to discuss this condition, if requested.





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EXECUTIVE SUMMARY

On August 14, 2018, at approximately 10:00 a.m., GZA personnel observed a turbid discharge from a drainage structure on the Site into the Mystic River. The Site drainage structure, referred to as Outfall 3, is located along the eastern edge of the Site at the southern end of the wharf/bulkhead structure, and is currently used as a point of discharge for storm water into the Mystic River. Upon observation, GZA immediately notified the responsible party of the observed condition, identifying the condition as a Condition of Substantial Release Migration under the MCP with a 72-hour reporting requirement. On August 16, 2018, at approximately 2:30 p.m., a verbal notification was made to Mr. Paul Giddings of MassDEP notifying him of the IRA condition. Mr. Giddings also provided verbal authorization on August 19 to proceed with IRA assessment activities for this release. On August 22, Mr. Giddings provided verbal authorization to implement mitigation efforts, including the installation of a bladder to mitigate flow and flushing of on-Site tree pit drainage lines to remove sediment that may be contributing to the turbidity.

This IRA Plan outlines procedures for addressing the Condition of Substantial Release Migration.

IRA PLAN

The following sections provide IRA Plan information in accordance with 310 CMR 40.0424.

THE NAME, ADDRESS, TELEPHONE NUMBER AND RELATIONSHIP TO THE SITE OF THE PERSON ASSUMING RESPONSIBILITY FOR CONDUCTING THE IMMEDIATE RESPONSE ACTION [310 CMR 40.0424(1)(A)]:

The entity assuming responsibility for this IRA is Wynn MA, LLC. Information for Wynn MA's contact person is provided below:

Mr. Robert DeSalvio
President
Wynn MA, LLC
101 Station Landing, Suite 200
Medford, Massachusetts 02155

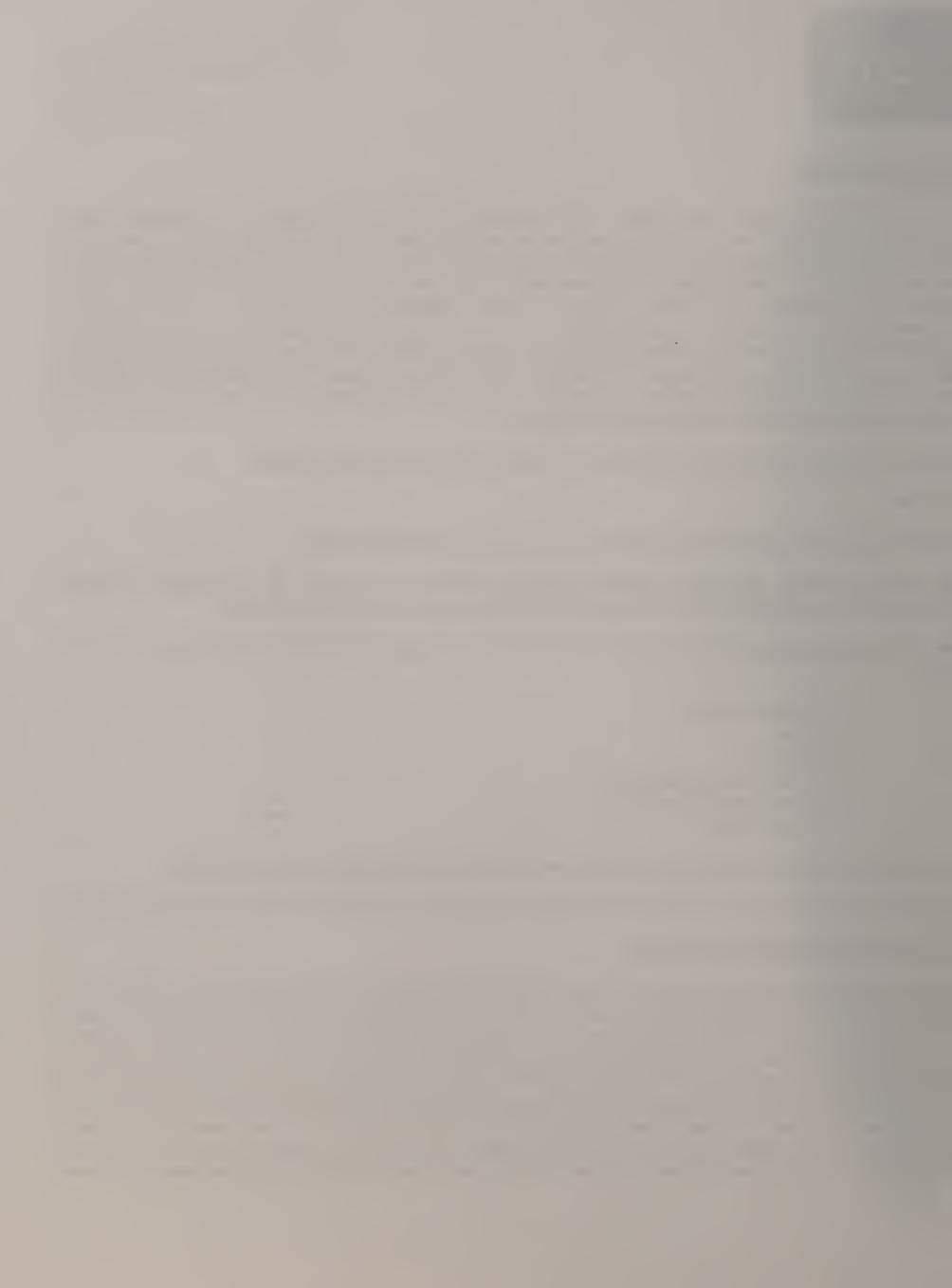
Tel: 857-770-7801

DESCRIPTION OF RELEASE, SITE CONDITIONS AND SURROUNDING RECEPTORS [310 CMR 40.0424(1)(B)]

The following sections provide a description of the Site and surrounding area conditions, and a description of the release.

SITE AND SURROUNDING AREA CONDITIONS

The IRA disposal site is a small portion of the Disposal Site at One Broadway in Everett (the "Property;" Figure 1). The location of the observed turbid discharge is shown on Figure 2. The approximate latitude and longitude for the location of the turbid discharge is 42.3935 degrees north and 71.0710 degrees west, respectively. The Universal Transverse Mercator (UTM) coordinates are 4,695,549 meters north and 329,535 meters east. Access to the Property is limited by the presence of a chain-link fence with two security gates that are manned 24 hours a day, seven days a week; one gate is in the northern portion of the Property, west of the adjacent MBTA property (as described below), and the second gate is located on the eastern side of the Property proximate to the former Horizon Way. A resort casino building is under construction on the Property; the surrounding ground surface at the Property is generally bituminous pavement, landscaped, or compacted coarse gravel. The ground surface at the Property is currently highest proximate to the resort





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casino building, and slopes downward from that area to the east and south towards the Mystic River. Current ground surface elevations at the Site, based on the NAVD 88 datum, range from 15 feet (proximate to the building) to elevation 10 feet proximate to the top of the Coastal Bank. Grades slope downward to about elevation 4.35 feet from the top of Coastal Bank to the bottom of the living shoreline. The observed discharge of turbid water emanates from Outfall #3 at approximately elevation -6.0 to -7.0 feet.

The Property is adjoined to the northeast by a vehicle maintenance and repair facility operated by the Massachusetts Bay Transportation Authority (MBTA); to the southeast by properties along Alford Street, including facilities operated by the Boston Water and Sewer Commission (BWSC) and the Massachusetts Water Resources Authority (MWRA); to the southwest by the Mystic River; and to the northwest by railroad tracks for the MBTA Commuter Rail, beyond which are several large commercial/retail buildings associated with the Gateway Center.

The Property is located within the Boston Basin, a regional depression of bedrock consisting primarily of Cambridge Argillite, a partially metamorphosed siltstone. Property conditions generally consist of fill over a variable sequence of naturally deposited organics, sand and gravel, and silty clay over weathered rock and bedrock. Filling over naturally deposited materials occurred in the area of the Property from the late 1800s through the early 1960s. More recent naturally deposited sediments along the shoreline include sand, silt, and organics.

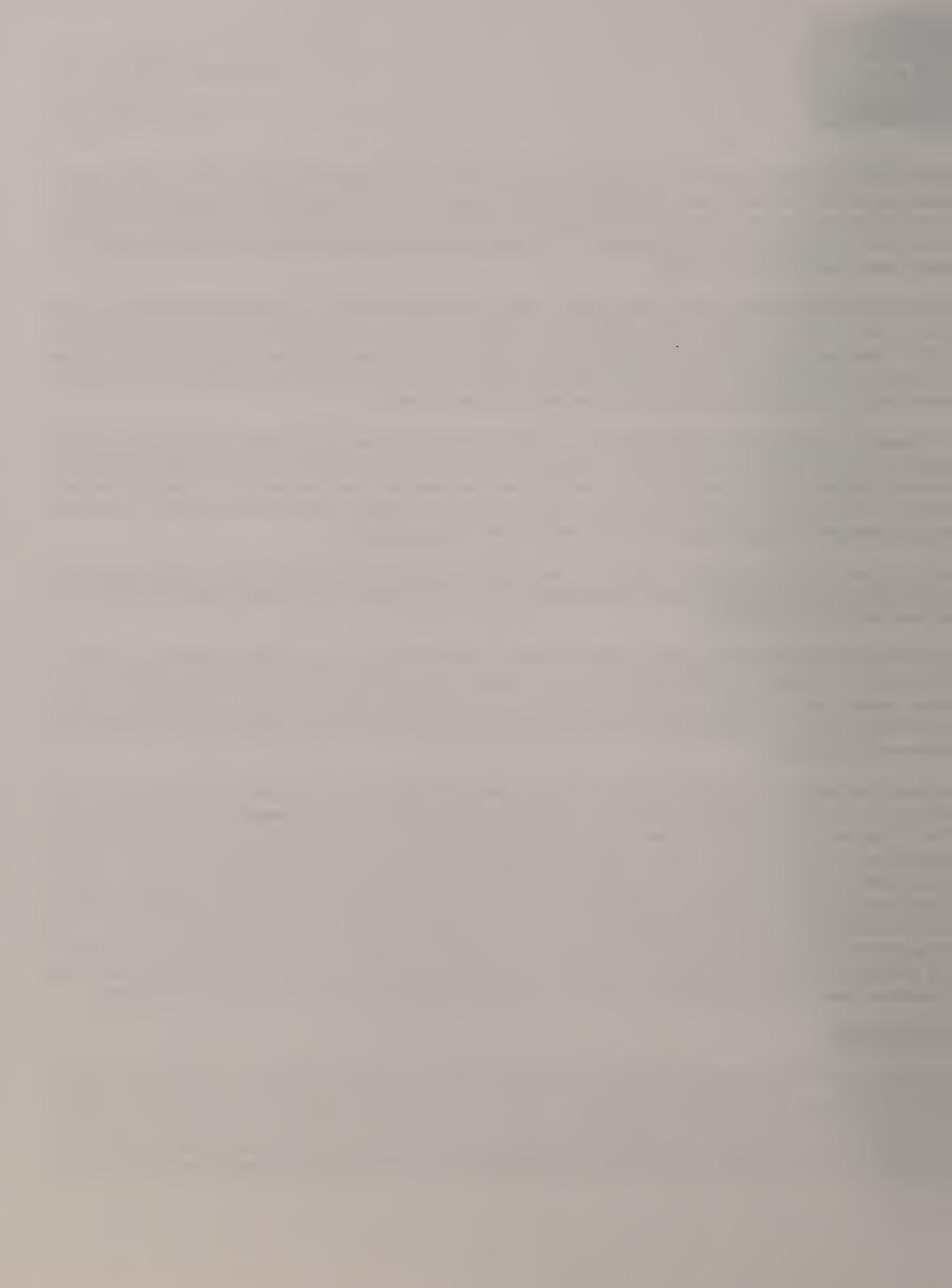
Depth to groundwater at the property ranges from approximately 4 to 10 feet below ground surface. Groundwater at the property flows generally toward the east on the southern portion of the Property and generally toward the south on the northern portion of the Property.

According to a Massachusetts Geographic Information System (MassGIS) map, a copy of which is included in Appendix C, the Property is not located in or within 500 feet of a Zone II public water supply, a potentially productive aquifer, a Zone A surface water body, an Interim Wellhead Protection Area, a protected wetlands habitat, or an Area of Critical Environmental Concern. Protected open space associated with Gateway Park is located approximately 400 feet to the northwest of the Property.

Soil and groundwater at the Property have been contaminated by historic activities, including the former use of the Property as a chemical manufacturing facility. On August 18, 2015, Wynn MA and GZA submitted a RAM Plan under RTN 3-13341 documenting MCP Response Actions to be completed prior to the redevelopment of the Property. These activities were completed in May 2016, with a RAM Completion Report submitted to MassDEP on August 4, 2016. Redevelopment of the Property for construction of the resort casino building and associated utility installation, roadway construction, and grading operation are being performed under a second RAM plan submitted to MassDEP on May 2, 2016, and modified by RAM Plan Modifications on November 16, 2016, February 2, 2017, and November 1, 2017. The active RAM Plan at the Property addresses the management and disposal of excess soils from the Property, the treatment and discharge of impacted groundwater as necessary to perform excavation and construction activities below the groundwater table, and the installation of engineering controls to mitigate future exposures to contaminated soils.

RELEASE HISTORY

On August 14, 2018, GZA personnel observed a turbid discharge from a stormwater drainage structure into the Mystic River. The drainage structure, referred to as Outfall 3, is located along the eastern edge of the Property at the southern end of the wharf/bulkhead structure, and is currently used as a point of discharge for storm water into the Mystic River. Upon observation, GZA immediately notified the responsible party of the observed condition, identifying the condition as a Condition of Substantial Release Migration under the MCP with a 72-hour reporting requirement. On August 16, 2018,





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at approximately 2:30 p.m., a verbal notification was made to Mr. Paul Giddings (MassDEP) notifying him of the IRA condition. GZA was provided with verbal authorization on August 19, 2018 to perform IRA assessment activities.

A DESCRIPTION OF THE IMMEDIATE RESPONSE ACTIONS UNDERTAKEN TO DATE AT THE SITE [310 CMR 40.0424(1)(C)]

GZA began assessment and monitoring activities at the Property to evaluate the potential source of the turbid discharge. Observations indicated that the turbid discharge was typically present during low tide conditions. On August 17, 2018, GZA collected a sample of water from the tree pit drainage system to visually evaluate the material causing the turbidity, and for laboratory analytical testing. The tree pit drainage system consists of piping installed inside tree pits below tree root balls to prevent over-saturation of tree roots. The piping collects excess water from irrigation and precipitation and then directs this water into a central collection pipe which directs the water to the stormwater discharge system. The tree pits are lined with geosynthetic material to mitigate contact with underlying soils.

The sample was submitted to Alpha Analytical Laboratory in Westborough, Massachusetts for analysis of total arsenic, copper, iron, lead, vanadium, zinc, and total suspended solids. Laboratory analytical results were received on August 21, 2018, and reviewed by Dr. Larry Feldman, LSP. The reported concentrations of contaminants were below RCGW-2 standards, but above the RCGW-1 standard for arsenic. The laboratory report is included in Appendix D.

GZA also collected water samples from multiple tree pit drainage locations for visual observation of water quality. Turbid water, similar to what was observed at the outfall, was identified at one of the tree pit locations closest to the primary stormwater drainage pipe.

This information was provided to MassDEP on August 22, 2018, along with proposed mitigation efforts consisting of the following:

- Installation of a temporary bladder in the drainage line from the one tree pit location where turbid water was observed in order to reduce the flow of water from this tree pit to the stormwater outfall;
- Flushing of the tree pit drainage piping (with the exception of the one tree pit piping where the bladder was installed) to evaluate turbidity of water during flushing; and
- Continued monitoring of the discharge after flushing and bladder installation.

Mr. Giddings provided notification to proceed with these efforts verbally on August 22, 2018 and then confirmed via email on September 4, 2018. The noted mitigation efforts began on September 11, 2018 and were completed by September 13, 2018. After flushing, the temporary bladder was removed from the tree pit location. The temporary bladder at the tree pit location had no visible impact on the turbid water discharge and the flushing only had a visible impact when the initial flushing occurred. Therefore, a second bladder was installed on September 19, 2018, to temporarily block flow from the tree pit drainage system into the drainage manhole upgradient of the outfall. Based on observations from September 19th to date, the second bladder appears to be effectively addressing the turbid discharge. GZA is continuing to visually monitor the discharge.

THE REASON WHY AN IMMEDIATE RESPONSE ACTION IS REQUIRED [310 CMR 40.0424(1)(D)]

This IRA Plan is required to assess conditions associated with the release of turbid stormwater discharge from Outfall #3 into the Mystic River, which was identified as a Condition of Substantial Release Migration under the MCP.





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OBJECTIVE, PLAN, AND SCHEDULE [310 CMR 40.0424(1)(E)]

The objective of the IRA Plan is to assess the Condition of Substantial Release Migration and evaluate the need for actions to be taken to mitigate the release of turbid discharge into the Mystic River and complete such actions, if identified.

As part of the ongoing RAM activities being conducted under RTN 3-13341, continued assessment and monitoring of this release will be performed to assess whether additional corrective actions are necessary. Upon completion of these activities, GZA intends to submit an IRA Completion Report and link this release (3-35119) with the RTN for the Property.

STATEMENT REGARDING REMEDIATION WASTE [310 CMR 40.0424(1)(F)]

No remediation waste has been generated or is anticipated to be generated for the described IRA activities.

ENVIRONMENTAL MONITORING PLAN [310 CMR 40.0424(1)(G)]

GZA will continue to visually monitor stormwater discharge at Outfall #3 for turbidity. GZA does not anticipate any additional environmental monitoring beyond these activities for this IRA. Ongoing environmental monitoring for RAM activities under RTN 3-13341 includes PM10 dust monitoring using hand held and stationary perimeter dust meters.

FEDERAL, STATE AND/OR LOCAL PERMITS [310 CMR 40.0424(1)(H)]

Ongoing remediation under RTN 3-13341 is being conducted consistent with local, state, and federal permits issued in association with RTN 3-13341.

GZA did not identify additional permit requirements for this work.

SEAL AND SIGNATURE OF LSP [310 CMR 40.0424(1)(I)]

The LSP certification by Dr. Larry Feldman, LSP, is provided on the BWSC-105 transmittal form included in Appendix A.

OTHER INFORMATION [310 CMR 40.0424(1)(J)]

No other information was identified that would be deemed appropriate for review by MassDEP in connection with this IRA Plan.

Please feel free to contact any of the undersigned at (781) 278-3700 if you have any questions or require additional information.

GZA GEOENVIRONMENTAL, INC.

Matthew Smith

Associate Principal

Lawrence Feldman,

David E. Leone

Consultant/Reviewer

Senior Principal





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Attachments: Figure 1 – Site Locus

Figure 2 – Site Plan

Appendix A – Limitations

Appendix B – Transmittal Forms BWSC-103 and BWSC Form-105

Appendix C – MassGIS Map

Appendix D – Laboratory Analytical Report

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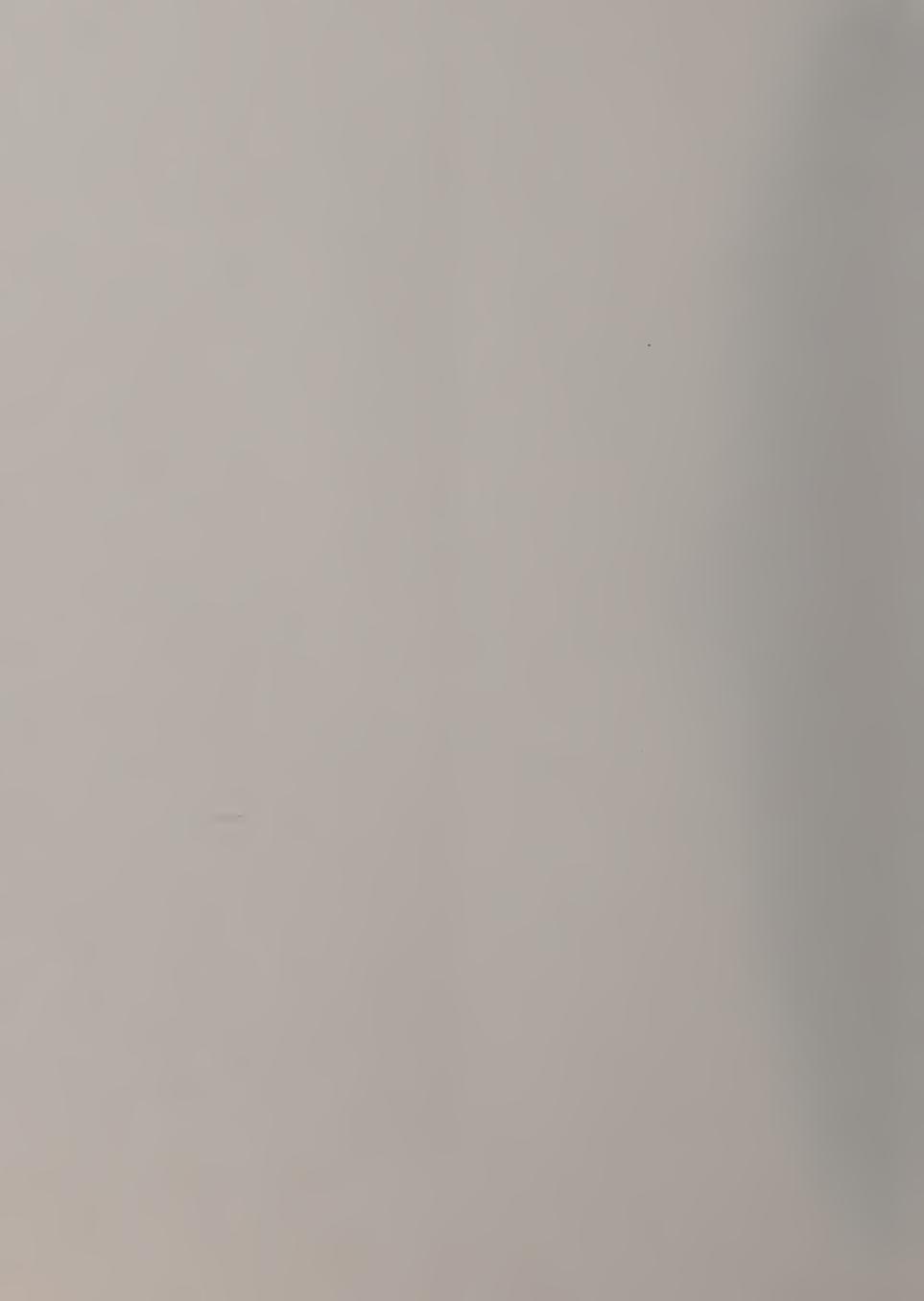








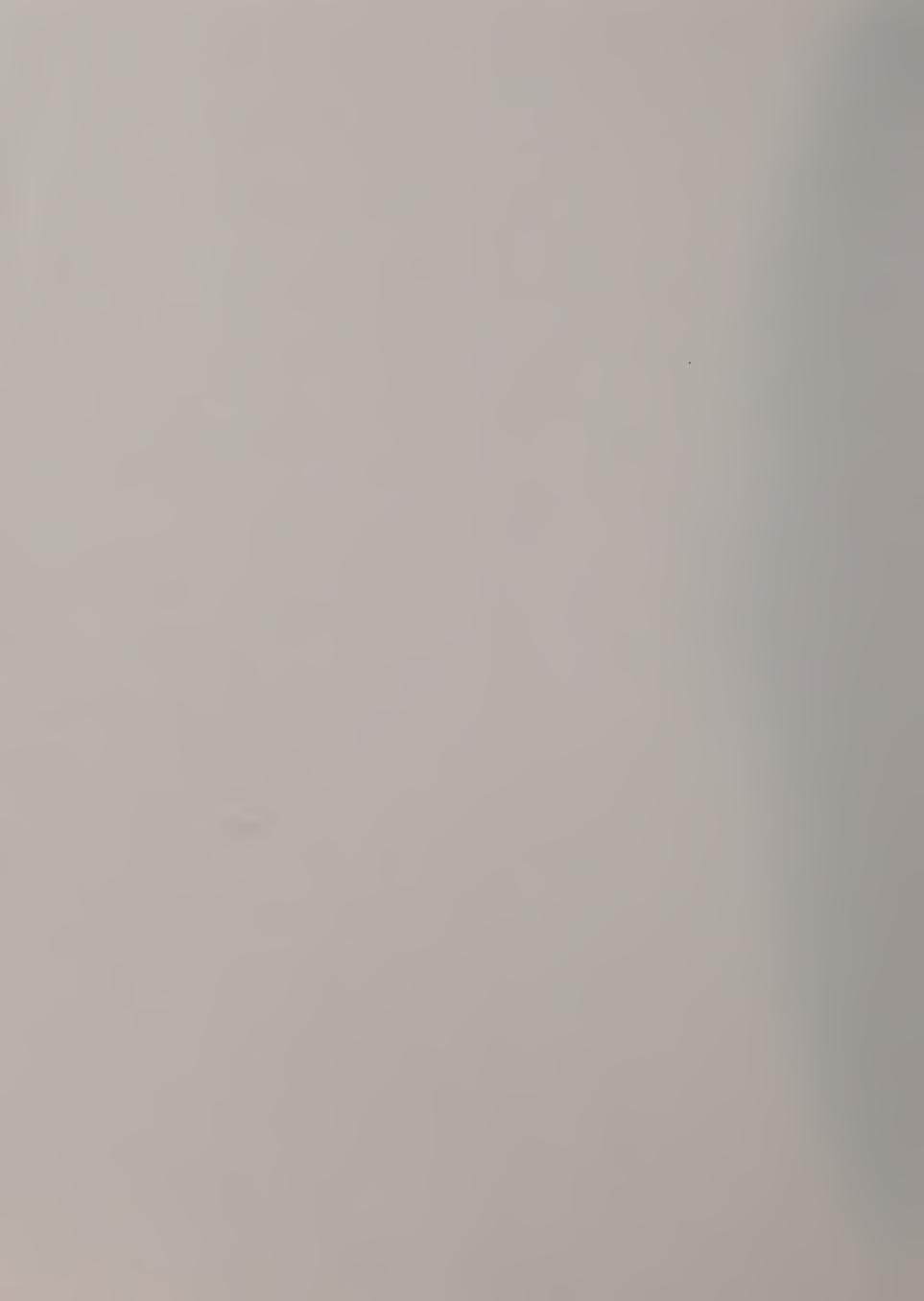
Figures













Appendix A – Limitations



April 2012



USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

- 2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
- 3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
- 4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

- 5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.



SCREENING AND ANALYTICAL TESTING

- 8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
- 9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
- 10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment.

Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

CONCEPTUAL SITE MODEL

14. Our opinions were developed, in part, based upon a comparison of site data to conditions anticipated within our Conceptual Site Model (CSM). The CSM is based on available information, and professional judgment. There are rarely sufficient data to develop a unique CSM. Therefore observations over time, and/or space, may vary from those depicted in the CSM provided in this report. In addition, the CSM should be evaluated and refined (as appropriate) whenever significant new information and/or data is obtained.

RISK CHARACTERIZATION

15. Our risk evaluation was performed in accordance with generally accepted practices of appropriate Federal and/or state regulatory agencies, and of other consultants undertaking similar studies at the same time, for similar purposes, and under similar circumstances. The findings of the risk evaluation are dependent on the numerous assumptions and uncertainties inherent in the risk characterization process. Sources of the uncertainty may include Site conditions; Site use; the nature, extent, concentration and distribution of contaminants; and the available toxicity and/or health/risk based regulatory information. Consequently, the findings of the risk characterization are not an absolute





A | 3 April 2012

characterization of actual risks; but rather serve to highlight potential incremental risks associated with activities indicated in the Report. Actual risks may be other than indicated in the Report.

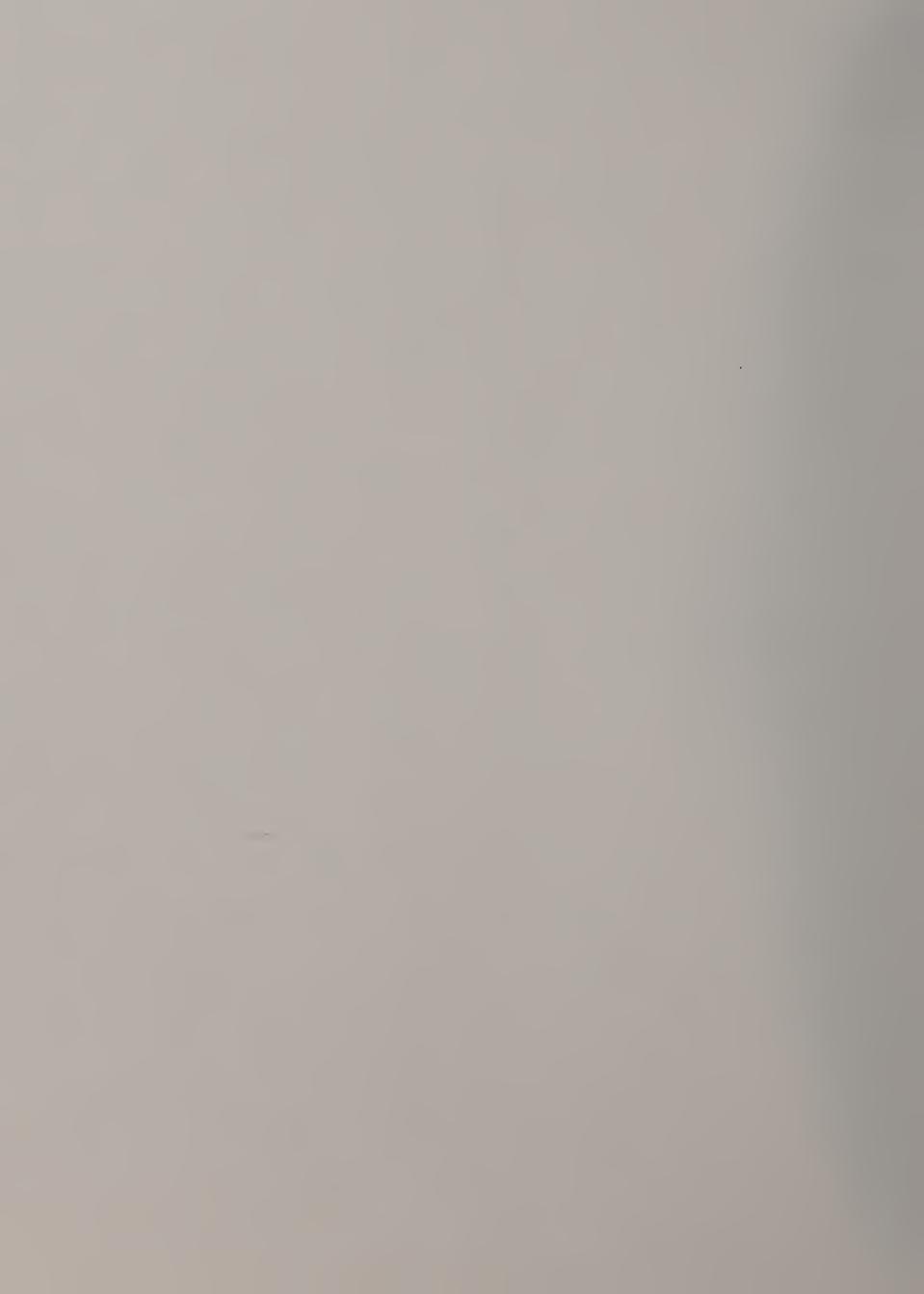








Appendix B – Transmittal Forms BWSC-103 and BWSC Form-105





Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

RELEASE NOTIFICATION & NOTIFICATION RETRACTION FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

BWSC 103

Release Tracking Number

3 - 35119

A. RELEASE OR THE	REAT OF RE	LEA	ASE LOCATION	N:						
1. Release Name/Location A	id: ENC	CORE	BOSTON HARBOR							
2. Street Address: 1	BROADWAY			······						
3. City/Town:	/ERETT			4. ZIP	Code:	021	490000			
5. Coordinates: a.	Latitude: N	4	2.39350	b. Longitu	ide: W	71.	07100			
B. THIS FORM IS BE	ING USED T	O:	(check one)							
	Notification									
2. Submit a Revised l	Release Notifica	tion								
3. Submit a Retraction required pursuant to 3		•	•		or threat	of rel	lease inclu	iding suppo	orting docum	nentation
• •		Ì	•	,	4 1	41		l - l· \		
(A	II sections of thi	s tra	nsmittal form must	be filled ou	it unless of	tnerv	vise noted			
C. INFORMATION D	ESCRIBING	TH	E RELEASE OR	RTHREA	T OF R	ELF	EASE (T	OR):		
1. Date and time of Oral Notification, if applicable:			8	8/16/2018		Time:	02:30	ГАМ	▼ PM	
2. Date and time you obtain	2. Date and time you obtained knowledge of the Release or TOR:				mm/dd/yyyy 8/14/2018		Time:	hh:mm 12:00	ГАМ	▼ PM
3. Date and time release or T	OR occurred if	knov	vn•	_	mm/dd/yy	уу	Time:	hh:mm	ГАМ	□ PM
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c. Oil Sheen on Surface	Water	Γ	c. Threat of UST R	Release		Г			Groundwate ble Concentr	
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e. Could Pose Imminent	Hazard	V	e. Substantial Relea	ase Migrati	ion					
f. Release Detected in Pr	rivate Well									
g. Release to Storm Drai	n									
h. Sanitary Sewer Relea: (Imminent Hazard Only)										



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

RELEASE NOTIFICATION & NOTIFICATION RETRACTION FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

BWSC 103

Release Tracking Number

3 - 35119

<u> </u>	INFORMATION	DESCRIBING T	HE RELEASE	OR THREAT OF	RELEASE (TOR): (cont.)	

	Check here if	an amount o	or concentration is	sunknown	or less than detectable.
O or HM Released	CAS Number, if known	O or HM	Amount or Concentration	Units	RCs Exceeded, if Applicable (RCS-1, RCS-2,RCGW-1, RCGW-2)
ARSENIC		НМ	0.05	MG/L	RCGW-1
	_	change of a	address	hange in th	e person notifying
2. Name of Organization: WYNN MAL	LC				
2. Name of Organization: WYNN MA L 3. Contact First Name: ROBERT	LC	4. Last	t Name: DESAL	.VIO	
		4. Last			
3. Contact First Name: ROBERT			PRESID		021550000
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND	ING SUITE #220	6. Title	PRESID 9.	ZIP Code:	
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND 7. City/Town: MEDFORD	8. State: 11. Ext.:	6. Title	9. 12. Email: ro	ZIP Code:	021550000 o@encorebostonharbor.com; r
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND 7. City/Town: MEDFORD 10. Telephone: 857-770-7000 13. Check here if attaching names and account of the state of	8. State: 11. Ext.: ddresses of owners of protification (required).	6. Title	9. 12. Email: ro	ZIP Code: bert.desalvi	021550000 o@encorebostonharbor.com; r
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND 7. City/Town: MEDFORD 10. Telephone: 857-770-7000 — 13. Check here if attaching names and acommer who is submitting this Release No	8. State: 11. Ext.: ddresses of owners of protification (required). RELEASE OR THI	6. Title	9. 12. Email: ro	ZIP Code: bert.desalvi	021550000 o@encorebostonharbor.com; r at of Release, other than an
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND 7. City/Town: MEDFORD 10. Telephone: 857-770-7000 13. Check here if attaching names and acowner who is submitting this Release No E. RELATIONSHIP OF PERSON TO 11. RP or PRP □ a. Owner 12. Check here if attaching names and acowner who is submitting this Release No 13. Check here if attaching names and acowner who is submitting this Release No 14. RP or PRP □ a. Owner 15. City/Town: MEDFORD 16. City/Town: MEDFORD 17. City/Town: MEDFORD 18. Check here if attaching names and acowner who is submitting this Release No 19. Check here if attaching names and acowner who is submitting this Release No	8. State: 11. Ext.: ddresses of owners of protification (required). RELEASE OR THI b. Operator Specify:	6. Title MA operties affe REAT OF c. Generate DN-SPECIFIED	9. 12. Email: ro ceted by the Release RELEASE: or	ZIP Code: bert.desalviouse or Threa Check he	021550000 o@encorebostonharbor.com; r at of Release, other than an
3. Contact First Name: ROBERT 5. Street: 101 STATION LAND 7. City/Town: MEDFORD 10. Telephone: 857-770-7000 ☐ 13. Check here if attaching names and acowner who is submitting this Release No E. RELATIONSHIP OF PERSON TO ☐ 1. RP or PRP ☐ a. Owner	8. State: 11. Ext.: ddresses of owners of protification (required). RELEASE OR THI b. Operator Specify: Ality with Exempt Status	6. Title MA Operties affe REAT OF c. Generate ON-SPECIFIED (as defined by	PRESIDENCE: 9. 12. Email: round rected by the Release rected by	ZIP Code: bert.desalviouse or Threa Check he	021550000 o@encorebostonharbor.com; r at of Release, other than an

Revised: 07/18/2013 Page 2 of 3



RELEASE NOTIFICATION & NOTIFICATION **RETRACTION FORM**

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

BWSC 103

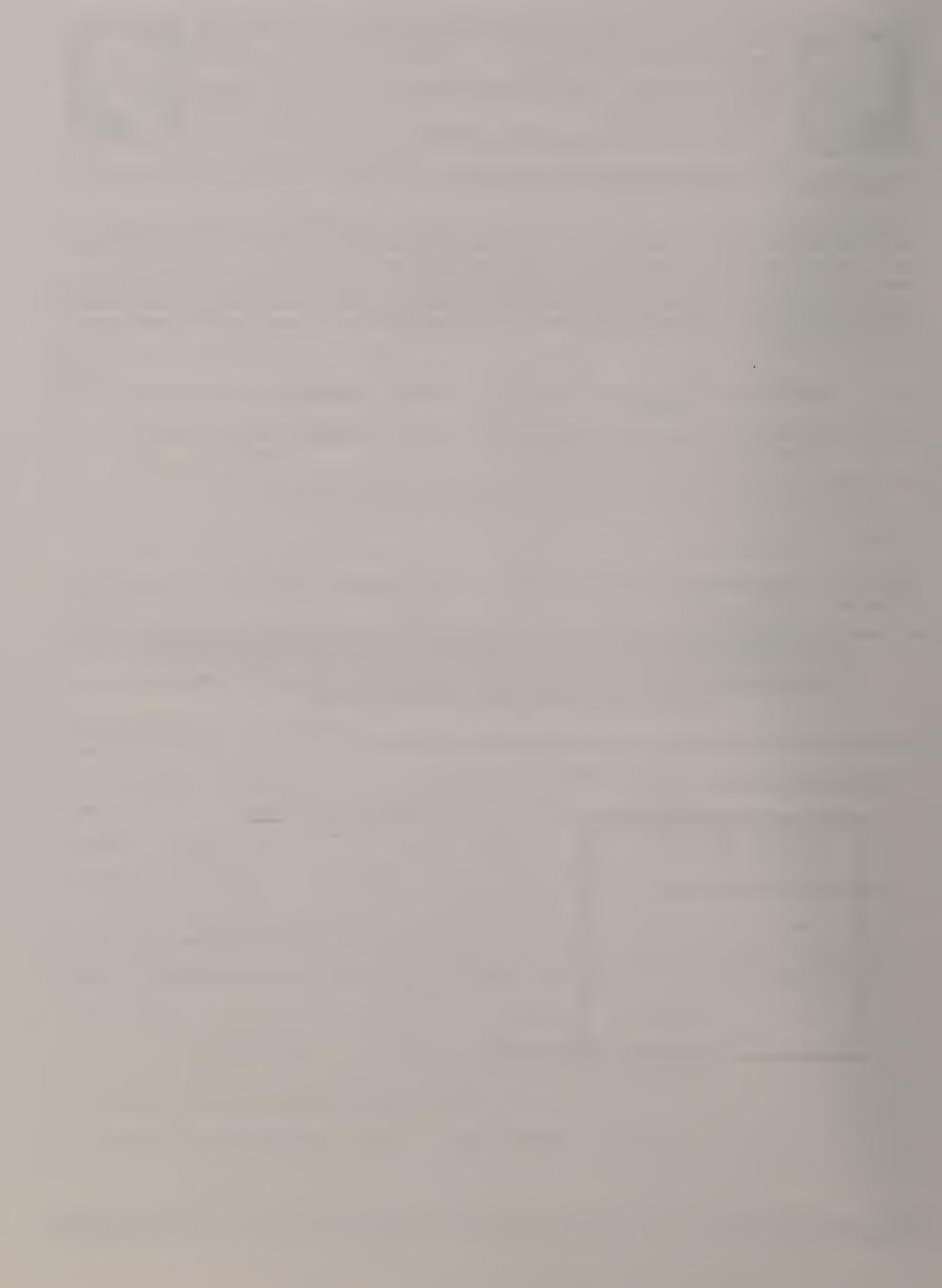
Release Tracking Number

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2 .	. [35119	-
3		73117	

. CERTIFICATION OF PERSON REQUI	IRED TO NOTIFY:
---------------------------------	-----------------

	TOTAL OF TELESON REQUIRED TO NOTE	•	
orm. (ii) that contained in this attestation	nattest under dam familiar with the information contained in this submitted, based on my inquiry of those individuals immediately respectively this submittal is, to the best of my knowledge and belief, truen on behalf of the entity legally responsible for this submit that there are significant penalties, including, but not limited	al, including any consible for obta le, accurate and ottal. I/the person	ining the information, the material information complete, and (iii) that I am fully authorized to make or entity on whose behalf this submittal is made
	incomplete information.	· 1	
2. By :	ROBERT DESALVIO	3. Title:	PRESIDENT
l. For:	Signature WYNN MA LLC		10/16/2018
. 1 01.	(Name of person or entity recorded in Section D)	J. Date .	mm/dd/yyyy
	here if the address of the person providing certification is of		
. City/Town:	9. State:		10. ZIP Code:
1. Telephone	e: 12. Ext.:	13. Email:	
CLA	OU ARE SUBJECT TO ANNUAL COMPLIANCE ASSURA ASSIFIED DISPOSAL SITES. YOU MUST LEGIBLY COM R DEP MAY RETURN THE DOCUMENT AS INCOMPLET MAY BE PENALIZED FOR MISSING	PLETE ALL RE	LEVANT SECTIONS OF THIS FORM MIT AN INCOMPLETE FORM, YOU
Date Stamp	p (DEP USE ONLY:)		
Re	PM PM		

Page 3 of 3 Revised: 07/18/2013





addressed by this transmittal form.

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D) **BWSC 105**

Release Tracking Number

3 - 35119

Α.	SITE LOCATION:			
1.	Relcase Name/Location	Aid: ENCORE BOSTON HARBOR		
2.	Street Address:	1 BROADWAY		
3.	City/Town:	EVERETT	4. Zip Code	: 021490000
<u></u>	5. Check here if this lo	ocation is Adequately Regulated, pursua	nt to 310 CMR 40.0110-0114.	
	Г a. CERCLA	☐ b. HSWA Corrective Action	☐ c. Solid Waste Mana	gement
	□ d. RCRA State P	rogram (21C Facilities)		
		ING USED TO: (check all that app nitial IRA Written Plan (if previously su	• /	
V	2. Submit an Initial IF	RA Plan.		
_	3. Submit a Modified l	IRA Plan of a previously submitted writ	ten IRA Plan.	
Γ	4. Submit an Imminer	nt Hazard Evaluation. (check one)		
	☐ a. An Imminent H	lazard exists in connection with this Rele	ease or Threat of Release.	
	☐ b. An Imminent H	lazard does not exist in connection with	this Release or Threat of Rele	ease.
	c. It is unknown wactivities will be unde		onnection with this Release or	Threat of Release, and further assessment
		whether an Imminent Hazard exists in conditions that could pose an Imminent H		Threat of Release. However, response actions
Г	5. Submit a request to	Terminate an Active Remedial System	or Response Action(s) Taken	n to Address an Imminent Hazard.
Γ	6. Submit an IRA Stat	tus Report		
_	7. Submit a Remedial	Monitoring Report. (This report can or	nly be submitted through eDE	P.)
	a. Type of Report: (cl	heck one)	☐ ii. Interim Report	☐ iii. Final Report
	b. Frequency of Subn	nittal: (check all that apply)		
	i. A Remedial Mo	nitoring Report(s) submitted monthly to	address an Imminent Hazard.	
	☐ ii. A Remedial Mo	onitoring Report(s) submitted monthly t	o address a Condition of Subs	stantial Release Migration.
	┌ iii. A Remedial M	lonitoring Report(s) submitted every six	months, concurrent with an IF	RA Status Report.
	□ iv. A Remedial M	onitoring Report(s) submitted annually,	concurrent with an IRA Statu	s Report.
	c. Number of Remed	ial Systems and/or Monitoring Programs	S:	

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program



BWSC 105

Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D) Release Tracking Number

3 - 35119

8. Submit an IRA Completion Statement .	
	or Threat of Release notification condition will be conducted as part dy been Tier Classified under a different Release Tracking Number
b. Provide Release Tracking Number of Tier Classified Site (Prim	nary RTN):
These additional response actions must occur according to the dead making all future submittals for the site unless specifically relating	· · · · · · · · · · · · · · · · · · ·
9. Submit a Revised IRA Completion Statement.	
10. Submit a Plan for the Application of Remedial Additives near a	sensitive receptor, pursuant to 310 CMR 40.0046(3).
(All sections of this transmittal form must be	e filled out unless otherwise noted above)
C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT	WARRANT IRA:
1. Media Impacted and Receptors Affected: (check all that apply)	☐ a. Paved Surface ☐ b. Basement ☐ c. School
☐ d. Public Water Supply ☐ e. Surface Water ☐ f. Zone	2
□ j. Groundwater □ k. Sediments □ l. Wetla	nd Γ m. Storm Drain Γ n. Indoor Air Γ o. Air
□ p. Soil Gas □ q. Sub-Slab Soil Gas □ r. Critica	al Exposure Pathway
r. Others Specify: SURFACE WATER/LIVING SHORELINE	
	a. Transformer
Image: Control of the cont	s
Tj. UST Describe:	
m. Unknown n. Other: HISTORIC MANUFACTURING	
3. Type of Release or TOR: (check all that apply)	g
☐ e. Rupture ☐ f. Vehicle Accident ☐ g. Leak	☐ h. Spill ☐ i. Test failure ☐ j. TOR Only
k. UST Removal Describe:	
☐ I. Unknown ☐ m. Other: HISTORIC MANUFACTURING	
4. Identify Oils and Hazardous Materials Released: (check all that apply) \(\Gamma \text{ a. Oils } \Gamma \text{ b. Chlorinated Solvents} \)
c. Heavy Metals d. Others Specify:	
D. DESCRIPTION OF RESPONSE ACTIONS: (check all that app	ly, for volumes list cumulative amounts)
√ 1. Assessment and/or Monitoring Only	☐ 2. Temporary Covers or Caps
☐ 3. Deployment of Absorbent or Containment Materials	☐ 4. Temporary Water Supplies
☐ 5. Structure Venting System/HVAC Modification System	6. Temporary Evacuation or Relocation of Residents
7. Product or NAPL Recovery	∇ 8. Fencing and Sign Posting
☐ 9. Groundwater Treatment Systems	☐ 10. Soil Vapor Extraction
☐ 11. Remedial Additives	☐ 12. Air Sparging
☐ 13. Active Exposure Pathway Mitigation System	☐ 14. Passive Exposure Pathway Mitigation System
, , , , , , , , , , , , , , , , , , , ,	,



BWSC 105

Immediate Response Action (IRA) Transmittal Form
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Kelease		rracking Numb	C
3	-	35119	Ī

	SCRIPTION OF RESPONSE ACTI	()		
15	. Excavation of Contaminated Soils.			
Γ	a. Re-use, Recycling or Treatment	i. On Site	Estimated volume in cubic yards	
		ii. Off Site	Estimated volume in cubic yards	
	iia. Receiving Facility:		Town:	State:
	iib. Receiving Facility:		Town:	State:
	iii. Describe:			
Γ	b. Store	i. On Site	Estimated volume in cubic yards	
		ii. Off Site	Estimated volume in cubic yards	
	iia. Receiving Facility:		Town:	State:
	iib. Receiving Facility:		Town:	State:
Γ	c. Landfill	i. Cover	Estimated volume in cubic yards	
	Receiving Facility:		Town:	State:
		ii. Disposal	Estimated volume in cubic yards	
	Receiving Facility:		Town:	State:
16	. Removal of Drums, Tanks, or Container	s:		
	a. Describe Quantity and Amount:			
	b. Receiving Facility:		Town:	State:
	c. Receiving Facility:		Town:	State:
17	. Removal of Other Contaminated Media			
	a. Specify Type and Volume:			
18	. Other Response Actions:			
10				



Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

BWSC 105

Release Tracking Number

- 35119

E. LSP SIGNATURE AND STAMP:

l attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

- > if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish thepurposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;
- > if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;
- > if Section B of this form indicates that an Immediate Response Action Status Report and/or a Remedial Monitoring Report is(are) being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000,(ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;
- > if Section B of this form indicates that an Immediate Response Action Completion Statement or a request to Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: <u>810</u>	07						
2. First Name:	LAWRENCE		3. Last Name:	FELDMAN			
4. Telephone:	781-278-3700	5. Ext:		5. Email:			
7. Signature:	LAWRENCE FELDMAN						
8. Date: 10/16	6/2018	(mm	/dd/yyyy)		9. LSP Stamp:		7
					COUNE WITH OF	Massach	ı

Electronic Seal Site Profession

Revised: 11/14/2013 Page 4 of 6



Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

BWSC 105

Release Tracking Number

3	-	35119	
3	-	35119	

F. PERSON UNDERTAKING IRA:	
1. Check all that apply:	change of address
2. Name of Organization: WYNN MA LLC	
3. Contact First Name: ROBERT 4. Las	st Name: DESALVIO
5. Street: 101 STATION LANDING SUITE #220	6. Title: PRESIDENT
7. City/Town: MEDFORD	8. State: MA 9. Zip Code: 021550000
10. Telephone: 857-770-7000 11. Ext:	12. Email: robert.desalvio@encorebostonharbor.com; robert.desa
G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE	SE OF PERSON UNDERTAKING IRA:
Check here to change relationship	
☐ 1. RP or PRP ☐ a. Owner ☐ b. Operator	C. Generator Cd. Transporter
▼ e. Other RP or PRP Specify Relationship: NO	N-SPECIFIED PRP
2. Fiduciary, Secured Lender or Municipality with Exempt Status	(as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.	6.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking Response Actions: Sp	pecify Relationship:
H. REQUIRED ATTACHMENT AND SUBMITTALS:	
·	f this IRA, will be stored, treated, managed, recycled or reused at the site box is checked, you must submit one of the following plans, along with
☐ a. A Release Abatement Measure (RAM) Plan (BWSC106)	☐ b. Phase IV Remedy Implementation Plan (BWSC108)
2. Check here if the Response Action(s) on which this opinion is approval(s) issued by MassDEP or EPA. If the box is checked, y thereof.	s based, if any, are (were) subject to any order(s), permit(s) and/or you MUST attach a statement identifying the applicable provisions
3. Check here to certify that the Chief Municipal Officer and the Immediate Response Action taken to control, prevent, abate or el	•
4. Check here to certify that the Chief Municipal Officer and the Statement for an Immediate Response Action taken to control, pr	
5. Check here if any non-updatable information provided on this to BWSC.eDEP@state.ma.us.	s form is incorrect, e.g. Release Address/Location Aid. Send corrections
✓ 6. Check here to certify that the LSP Opinion containing the mat	erial facts, data, and other information is attached.

Revised: 11/14/2013 Page 5 of 6



Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

BWSC 105

Release Tracking Number 3

_	25110
	35119

L	CERTIFICATION	ON OF PERS	ON UND	ERTAI	KING IRA:
---	---------------	------------	--------	-------	-----------

I. I. ROBE	ERT DESALVIO	, attest under th	ne pains and pen	alties of perjury (i) that	have personally examined and
am fa	amiliar with the information contai	ned in this submittal, in	cluding any and	all documents accompa	nying this transmittal form; (ii)
	based on my inquiry of the/those	* *	•	_	
	ained herein is, to the best of my k			-	
	vledge, information and belief, I/th				
	40.0183(2); (iv) that I/the person(s				
	CMR 40.0183(5); and (v) that I a	•			
	onsible for this submittal. I/the p				
_	ficant penalties, including, but no neglete information.	it limited to, possible i	ines and impris	onment, for willfully s	ubmitting raise, inaccurate, or
IIICOI	inpiete information.				
2. By:	ROBERT DESALVIO		3. Title:	PRESIDENT	
4. For:	WYNN MA LLC		5. Date:	10/16/2018	(mm/dd/yyyy)
6. Che	ck here if the address of the person	providing certification	is different from	address recorded in Sec	tion F.
7. Street:					
8. City/Tov	vn:		9. State:	10. Zip C	ode:
11. Telepho	one:	12. Ext:	13. Email:		
	YOU ARE SUBJECT TO AN A	ANNUAL COMPLIANC	E ASSURANCE	FEE OF UP TO \$10,000 I	PER BILLABLE
	YEAR FOR THIS DISPOSAL			• /	
	FORM OR DEP MAY RETU				
	FORM, YOU N	MAY BE PENALIZED F	OR MISSING A	REQUIRED DEADLINE.	
Date Stamp	(DEP USE ONLY:)				

Received by DEP on 10/16/2018 12:58:56 PM







Appendix C – MassGIS Map



MassDEP - Bureau of Waste Site Cleanup

NAD83 UTM Meters: 4695723mN , 329609mE (Zone: 19) January 20, 2015

Site Information:
FORMER EVERETT STAGING YARD
ONE BROADWAY EVERETT, MA
3-000013341

NAD83 UTM Meters:
4695723mN, 329609mE (Zone: 19)
January 20, 2015

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: be found at:













Appendix D - Laboratory Analytical Report





ANALYTICAL REPORT

Lab Number:

L1832434

Client:

GZA GeoEnvironmental, Inc.

249 Vanderbilt Ave Norwood, MA 02062

ATTN:

Matthew Smith

Phone:

(781) 278-5830

Project Name:

WYNN EVERETT

Project Number:

171521.52

Report Date:

08/21/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

JOST 01 140.002 110.000

L1832434 08/21/18

Lab Number:

Report Date:

WYNN EVERETT 171521.52 Project Name:

Project Number:

Client ID L1832434-01 Alpha Sample ID

Matrix

TREE PIT DRAINAGE 8-17-18 WATER

Sample Location

1 HORIZON WAY, EVERETT, MA

Collection Date/Time

08/17/18 10:10

08/17/18

Receive Date

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
В	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
С	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
Eb.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A res	ponse to questions G, H and I is required for "Presumptive Certainty" status	
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
Н	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
1	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



ociiai_i10.002 i 10 10.00

Project Name:

Project Number:

WYNN EVERETT

171521.52

Lab Number:

L1832434

Report Date:

08/21/18

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Total Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

600 Skandow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 08/21/18

METALS



Jenai_140.002 1 10 10.00

Project Name: WYNN EVERETT Lab Number: L1832434

171521.52 Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: Date Collected: 08/17/18 10:10

Client ID: TREE PIT DRAINAGE 8-17-18 Date Received: 08/17/18
Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Project Number:

Matrix: Water

-	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
	MCP Total Metals - N	Mansfield	Lab									
	Arsenic, Total	0.0499		mg/l	0.0050		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC
	Copper, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC
	Iron, Total	1.94		mg/l	0.050		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC
	Lead, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC
	Sulfur, Total	347		mg/l	2.50		10	08/21/18 07:45	08/21/18 14:02	EPA 3015A	97,6010D	LC
-	Vanadium, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC
	Zinc, Total	0.245		mg/l	0.050		1	08/20/18 14:20	08/21/18 09:40	EPA 3005A	97,6010D	LC

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Project Name:

WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

Method Blank Analysis Batch Quality Control

Parameter	Result C	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals -	Mansfield Lab	for sampl	e(s): 01	Batch:	WG114	8484-1				
Arsenic, Total	ND		mg/l	0.0050		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
Copper, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
Iron, Total	ND		mg/l	0.050		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
Lead, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
Vanadium, Total	ND		mg/l	0.010		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
Zinc, Total	ND		mg/l	0.050		1	08/20/18 14:20	08/21/18 09:23	97,6010D	LC
				D						

Prep Information

Digestion Method:

EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
MCP Total Metals -	Mansfield Lab for sampl	e(s): 01	Batch:	WG114	8696-1				
Sulfur, Total	ND	mg/l	0.250		1	08/21/18 07:45	08/21/18 10:15	97,6010D	LC

Prep Information

Digestion Method:

EPA 3015A



Lab Control Sample Analysis Batch Quality Control

WYNN EVERETT

171521.52

Project Number:

Project Name:

L1832434 Lab Number:

08/21/18 Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD Qual	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1148484-2 WG1148484-3	sample(s): 01 E	3atch: WG114	8484-2 WG11	18484-3				
Arsenic, Total	112		112		80-120	0		20
Copper, Total	100		66		80-120	-		20
Iron, Total	106		105		80-120	-		20
Lead, Total	102		102		80-120	0		20
Vanadium, Total	104		102		80-120	2		20
Zinc, Total	105		104		80-120	-		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01		3atch: WG114	Batch: WG1148696-2 WG1148696-3	48696-3				
Sulfur, Total	101		105		80-120	4		20

INORGANICS & MISCELLANEOUS

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Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

SAMPLE RESULTS

Lab ID:

L1832434-01

TREE PIT DRAINAGE 8-17-18

Date Collected:

08/17/18 10:10

Client ID: Sample Location:

1 HORIZON WAY, EVERETT, MA

Date Received:

08/17/18

Field Prep:

Not Specified

Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat									
Solids, Total Suspended	400		mg/l	50	NA	10	-	08/18/18 12:10	121,2540D	JT

Octial_140.002 1 10 10.00

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analy
General Chemistry - W	estborough Lab for samp	ole(s): 01	Batch	: WG11	48032-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1		08/18/18 12:10	0 121,2540D	TL (



WYNN EVEREII Project Name:

Project Number: 171521.52

Sample Receipt and Container Information

Lab Number: L1832434

Report Date: 08/21/18

YES

Cooler Information

Were project specific reporting limits specified?

Custody Seal Cooler

Absent

4

Container Information Container ID Contai	rmation Container Type	Initial Final 1 Cooler pH pH c	Initial pH	Final pH	Temp deg C Pres Seal	Pres	Seal	π Q
L1832434-01A	Plastic 250ml HNO3 preserved	∢	\$	<2	3.3	>	Y Absent	
L1832434-01B	Plastic 250ml HNO3 preserved	∢	~	8	3.3	>	Y Absent	
L1832434-01C	Amber 1000ml unpreserved	∢	7	7	3.3	>	Y Absent	

Analysis(*)

Jate/Time -rozen

MCP-FE-6010T-10(180),MCP-AS-6010T-10(180),MCP-S-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-V-6010T-10(180) MCP-FE-6010T-10(180),MCP-AS-6010T-10(180),MCP-S-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180)

TSS-2540(7)

Дгена

Project Name: WYNN EVERETT L1832434

Project Number: 171521.52 **Report Date:** 08/21/18

GLOSSARY

Acronyms

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA · N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



L1832434

Lab Number:

Project Name: WYNN EVERETT

Project Number: 171521.52 **Report Date:** 08/21/18

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product"
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:

WYNN EVERETT

Project Number: 171521.52

Lab Number:

L1832434

Report Date:

08/21/18

REFERENCES

EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



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Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873**Revision 11

Published Date: 1/8/2018 4:15:49 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 5-Ethyltoluene, Azobenzene; 5-Ethyltoluene, Azobenzene; 6-Ethyltoluene, Azobenzene; 6-Ethyltoluene,

Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-B, E, SM4500P-B, E, SM4500P-B, E, SM4500P-B, SM4500P-

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

ALPHA Job #: 41837474	Billing Information	O Same as Client info PO#	Project Information Requirements	Cl Yes No CT RCP Analytical Methods	als & EPH with Targets)	Criteria		SAMPLE INFO		ULab to do				All samples submitted are subject to Alpha's Terms and Conditions 746 See reverse side
Date Rec'd in Lab. 7 / 5	Report Information - Data Deliverables	LI ADEX SEMAIL	Regulatory Requirements & Project Inf	Yes D No Matrix Soike Required on this SDG? (Required for MCP Ingression)		Other State /Fed Program	21 21	SISY JAN	STATE OF THE	POS COLONIA DE LA COLONIA DE L	X X X			Maye (Maye (Maye) 19 19 19 19 19
CUSTODY PAGE 1 OF 1	rmation	1058) W	Project Location: L Horizon May,	-	Project Manager. Neal Carey	ALPHA Quote #:	Turn. Around Time	Date Due: 2 - Dow		Collection Sample Sampler Date Time Matrix Initials	8-H-18 8/H/18 (0:10 water LFT	Container Type	Preservative	Laylan 8/17/8 13:05
ALPHA CHAIN OF	320 Forbes Blvd	81 Mansfield, MA 02048 Tel: 508-822-9300	Client Information	Client G2.A	inderbilt Ave	AN POO	Phone: (781) 278 - 3700	Additional Project Information:		ALPHA Lab ID (Lab Use Only)	334 Tree Oct Daimage 8		800	D= Bactene cup C= Cubs C= Cubs C= MeOH C= MeOH C= Manson D= Bob Buttle D= Nangazo D= Nangazo



